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ABSTRACT OF THE DISCLOSURE

A radio communications system such as a radio local area
5 network including a base station and mobile stations. The
radio communications system includes an intermittent power-
on type mobile station for shifting automatically to a power-on
state in synchronous with a receiving timing of a beacon
signal, with a fixed period of time after the beacon signal has
10 been received being a data receive-ready period; and a base
station for emanating regularly a beacon signal to the
intermittent power-on type mobile station and communicating
with the intermittent power-on type mobile station by radio
while the intermittent power-on type mobile station is
15 controlled. The base station preferentially transmits data to a
normal mobile station in a normally power-on state when the
data to be transmitted to the intermittent power-on type mobile
station exists duration the data receive-ready period of the
intermittent power-on type mobile station. The radio
20 communications system can realize improved throughput and
power saving.